## IN THE CLAIMS:

The claims 3, 4, 5, 6, 9, 10, 11, 13 and 14 are cancelled, and the remaining claims 1, 2, 7, 8 and 12 are amended as indicated below:

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- 1. A method for processing a digitally encoded multimedia stream of 1 data that is in packets including processing prior to 2 transmission, multiplexing, and splicing to prevent underflow 3 of a decoder buffer of a predetermined size, each frame having a presentation time stamp and a decoding time stamp, said 5 method comprising the steps of: 6 a) determining, prior to transmission of a data stream, a 7 potential data underflow for said decoder buffer by a process 8 of emulation when said decoder buffer is less than said predetermined size; 10 b) adding a predetermined value to said presentation time 11 stamp when said potential data underflow is determined in 12 step a); and 13 c) adding said predetermined value to said decoding time 14 stamp when said potential data underflow is determined in 15 step a); 16 whereby a buffer underflow of said decoder buffer is 17
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prevented.

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- 1 2. The method as defined in claim 1 wherein said digitally 2
- encoded multimedia stream of data is an MPEG-2 transport 3
- stream.
- 1 7. The method of claim 1 wherein said predetermined value added 2
- to said presentation time stamp is an amount T determined by
- 3 the relationship:
- T = (B x) / [S \* (P H) / P]
- 5 where: B = the size of said decoder buffer;
- x = the size of said current buffer;
- 7 S = the bit rate of said transport stream;
- 8 P = a uniform size of said packets; and
- 9 H = a minimum header size for each of said packets.
- 1 8. The method of claim [8] 7 wherein said current buffer level
- 2 is x, said packets have a uniform size P and each packet has a
- 3 minimum header size H, a maximum number of null packets
- deleted is by the relationship: 5

$$N = (B - x) / (P - H)$$

- 6 where: N = a number of packets;
- 7 B = the size of said decoder buffer;
- 8 x = the size of said current buffer;
- 9 P = a uniform size of said packets; and
- 10 H = a minimum header size for each of said 11 packets.

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_	10	In a method for transmission, multiplexing, and splicing a
1	12.	digitally encoded transport stream to prevent buffer underflow
2		digitally encoded transport stream to provide a second transport stream transport stream to provide a second transport stream transport strea
3		of said stream including packets each having a presentation
3		time stamp and a decoding time stamp, said method being
4		time stamp and a decoding time to prodetermined size,
5		adapted for use with a decoder buffer of a predetermined size,
		said method comprising the steps of:
6		
		a) determining by a process of emulation, and processing prior
7		a) determining by a process

- to transmission, multiplexing and splicing encoded transport stream, a potential underflow when the current buffer size is less than said predetermined amount;
- b) adding a predetermined value to said presentation time 11 stamp, when a potential underflow is determined in step (a); 12 and
- c) adding said predetermined value to said decoding time 14 stamp, when a potential underflow is determined in step (a); 15
- whereby buffer underflow is prevented. 16

## THE AMENDED CLAIMS, AFTER THE CHANGES, APPEAR AS FOLLOWING:

1. (Amended) A method for processing a digitally encoded multimedia 1 2 stream of data that is in packets including processing prior to transmission, multiplexing, and splicing to prevent underflow of a decoder buffer of a predetermined size, each frame having a presentation time stamp and a decoding time 6 stamp, said method comprising the steps of:

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7	a) determining, prior to transmission of a data stream, a
8	potential data underflow for said decoder buffer by a process
9	of emulation when said decoder buffer is less than said
10	predetermined size;
11	b) adding a predetermined value to said presentation time
1/2	stamp when said potential data underflow is determined in
(13)	step a); and
14	c) adding said predetermined value to said decoding time
15	stamp when said potential data underflow is determined in
16	step a);
17	whereby a buffer underflow of said decoder buffer is
18	prevented.

- 2. (Not Amended) The method as defined in claim 1 wherein said digitally encoded multimedia stream of data is an MPEG-2 transport stream.
- 7. (Not Amended) The method of claim 1 wherein said predetermined
  value added to said presentation time stamp is an amount T
  determined by the relationship:

$$T = (B - x) / [S * (P - H) / P]$$

5 where: B = the size of said decoder buffer;

7 s = the bit rate of said transport stream;

8	<pre>P = a uniform size of said packets; and</pre>
9	H = a minimum header size for each of said packets.
1	8. (Amended) The method of claim 7 wherein said current buffer
2	level is x, said packets have a uniform size P and each packet
3	has a minimum header size H, a maximum number of null packets
4	deleted is by the relationship:
5	N = (B - x) / (P - H)
	·
6	where: N = a number of packets;
7 ·	B = the size of said decoder buffer;
8	x = the size of said current buffer;
9	P = a uniform size of said packets; and
10	H = a minimum header size for each of said
11	packets.
1	12. (Amended) In a method for transmission, multiplexing, and
2	splicing a digitally encoded transport stream to prevent
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- splicing a digitally encoded transport stream to prevent
  buffer underflow of said stream including packets each having
  a presentation time stamp and a decoding time stamp, said
  method being adapted for use with a decoder buffer of a
  predetermined size, said method comprising the steps of:
- a) determining by a process of emulation, and processing prior to transmission, multiplexing and splicing said digitally encoded transport stream, a potential underflow when the current buffer size is less than said predetermined amount;

11	b) adding a predetermined value to said presentation time
12	stamp, when a potential underflow is determined in step (a)
D 13	and and
P) 14	c) adding said predetermined value to said decoding time
15	stamp, when a potential underflow is determined in step (a);
16	whereby buffer underflow is prevented.